Docket No.: 264464US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: GROUP: 1616

Satoru TAKAHASHI, et al.

SERIAL NO: 10/521,755 EXAMINER: brown, c.

FILED: January 19, 2005

FOR: HERBICIDAL COMPOSITION

# DECLARATION UNDER 37 C.F.R. § 1.132

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

Sir:

1. Now comes Makoto Fujinami who deposes and states that:

I am the same Makoto Fujinami who, on April 13, 2009, executed the Declaration filed in the present application on March 10, 2010 (i.e., the April 2009 Declaration).

It has come to my attention that the April 2009 Declaration included errors in Tables X-2 and X-3 which were a part of the Appendices to the April 2009 Declaration.

The present Declaration is substantially the same as the April 2009 Declaration except the errors in Tables X-2 and X-3 are corrected. The errors are shown with strikethrough text for incorrect numbers and underlined bold text for correct numbers.

The errors do not change my conclusions and opinions as set forth herein and in the April 2009 Declaration.

- 2. I am a graduate of Kyoto University and received my Master's degree in the year 1997.
- 3. I have been employed by Kumiai Chemical Industry Co., Ltd. since 1997, and I have been conducting research in the field of research and development works rel; ative to

herbicide compositions and other related products of Kumiai Chemical Industry Co for 13 years.

- 4. I am familiar with the prosecution history of the present application (i.e., U.S. 10/521,755) and/or the prosecution history of the present application has been explained to me by counsel.
- 5. I have read and understood the Office Action of January 26, 2009 and/or the January 26, 2009 Office Action has been explained to me by counsel.
- 6. I have read and understood the Ziemer (U.S. 2003/013010) and Nakatani (U.S. 7,238,689) publications cited by the Examiner in the January 26, 2009 Office Action or foreign language equivalents thereof.
- 7. In order to demonstrate the effects of one or more embodiments of the present invention, the following experiments were carried out by me or under my direct supervision and control.

#### Test Example X-1

Tests for herbicidal effects were conducted in the same manner as described in "Application Example 1" on pages 143 to 146 of the present specification provided that the weeds were changed to green foxtail (Satria viridis) and velvetleaf (Abutilon theophrasti Medic).

The herbicidal effects are indicted by percentage (from 0 to 100%) and the results are indicated in Table X-1 (see the Appendix).

Further, theoretical herbicidal effects obtainable by blending herbicides are calculated from the following formula [1] (Colby's formula) and the calculated theoretical values are indicated by the Compounds titled "(Exp.)" in Table X-1.

Formula [1]: T = P1 + [P2(100 - P1)/100]

P. 4

P2: Herbicidal effect obtained when a predetermined amount of active ingredient (y) of the herbicidal component 2 is applied to weeds grown under the same conditions.

T: Herbicidal effect obtained when a predetermined amount of active ingredient (x) of the herbicidal component 1 and a predetermined amount of active ingredient (y) of the herbicidal component 2 are applied to weeds grown under the same conditions.

Colby's formula: Please see "Calculation synergistic and antagonistic response of Herbicide combinations". Weeds 15, pages 20-22; 1967.

#### Test Example X-2

Tests for herbicidal effects were conducted in the same manner as described in Application Example 1 of the present specification, and the herbicidal effects are indicated by percentage (from 0 to 100%) as made in Test Example X-1, and the results are indicated in Table X-2.

The weed used for the test was common chickweed (Stellaria media Villris).

"(Exp.)" in Table X-2 is a theoretical value of herbicidal effect obtainable by blending the herbicides as previously mentioned.

### Test Example X-3

Tests for herbicidal effects were conducted in the same manner as described in Application Example 1 of the present specification, and the herbicidal effects are indicated by percentage (from 0 to 100%) as made in Test Example X-1, and the results are indicated in Table X-3.

Weeds tested were crabgrass (Digitaria ciliaris) and common lambsquarters (Chenopodium album).

"(Exp.)" in Table X-3 is a theoretical value of herbicidal effect obtainable by blending the herbicides as previously mentioned.

From the results indicated in Tables X-1, X-2 and X-3, it is clearly understood that the herbicidal effects of the herbicidal composition of the present invention are higher than the theoretical values of herbicidal effects of respective herbicides.

- 8. It is my opinion based on the data of Tables X-1, X-2 and X-3 that the herbicidal composition of the present claims (i.e., one that contains the ingredients identified as components i) and ii) recited the present claims) provides an herbicidal effect that is greater than the theoretical cumulative effect. Such a result would not have been expected from theory which, as explained above, provides a different lower cumulative herbicidal result.
- 9. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

10. Further deponent saith not.

Makoto Fujinami

May 31, 2010

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## APPENDIX

Table X-1

	Amount of active	Herbicidal effect (%)	
Compound	ingredient (g a.i./ha)	green foxtail (Satria viridis)	velvetleaf (Abutilon theophrasti Medic)
	16	87	27
3-0188	16	67	99
isoxaflutole	12.5	96	99
Exp.) 3-0188	16 + 12.5		
+isoxaflutole		99	100
3-0188	16 + 12.5		
+ isoxaflutole		87	27
3-0188	16	20	18
flumetsulam	10	90	40
(Exp.) 3-0188	16+10		
+ flumetsulam		95	68
3-0188	16+10		
+ flumetsulam		87	27
3-0188	16	0	80
mesotrione	25	87	85
(Exp.) 3-0188	16 + 25	87	
+ mesotrione 3-0188	16 + 25	92	100
+ mesotrione	22	88	
3-0188	32	0	
glyphosate	265	88	-
(Exp.) 3-0188	32 + 265		
+ glyphosate 3-0188 + glyphosate	32 + 265	97	•

Table X-2

able X-2		11 1 ff-a+ (9/)
Compound	Amount of active	Herbicidal effect (%)
Compound	ingredient (g	common chickweed
	a.i./ha)	(Stellaria media
		Vilyris)
	18.8	50
3-0188	800 300	80
pendimethalin	18.8 + 300	90
(Exp.)	}	<b>\</b>
3-0188	1	
+pendimethalin	18.8 + 300	98
3-0188	18.8 1 300	
+ pendimethalin	18.8	50
3-0188	15	5
thisensulfuron-methyl	18.8 + 15	53
(Exp.)	18,8 : 13	
3-0188		
+ thifensulfuron-methyl	18.8 + 15	77
3-0188	16.6	
+ thifensulfuron-methyl	18.8	50
3-0188	37.5	40
diflufenican		70
(Exp.)	18.8 + 75 37.5	
3-0188	1	ļ
+ diflufenican	700 177 37 E	80
3-0188	18.8 + 75 37.5	
+ diflufenican		
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Table X-3

O manual	Amount of active	Herbicidal effect (%)	
Compound	ingredient (g a.i./ha)	crabgrass (Digitaria	common
	Highermonia (B )	ciliaris)	lambsquarters
ţ		1	(Chenopodium
			album)
		66	80
3-0188	75	30	70
flumioxazin	25	76	94
(Exp.)	75 + 25	1	
3-0188			
+flumioxazin		100	100
3-0188	75 + 25	100	
+ flumioxazin		0	89
3-0188	32	93	6
linuron	50	93	42 90
(Exp.)	32 + 50	95	
3-0188			
+ linuron		98	98
3-0188	32 + 50	98	
+ linuron		98 93	89
3-0188	32	0	50
prometryn	75	93	95
(Exp.)	32 + 75	93	
3-0188			
+ prometryn		100	100
3-0188	32 + 75	100	
+ prometryn			